

BEST AVAILABLE COPY**Amendments to the Claims:**

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A method of running an algorithm wherein the algorithm comprises a first function and a second function, the method comprising the steps of:

requesting determining one or more an algorithm resource resources by the algorithm to provide a plurality of output quality levels,

determining that the first function provides a first plurality of quality levels and the second function provides a second plurality of quality levels,

allocating a budget to the algorithm based on the determined algorithm resource to enable operating the algorithm at an output quality level, said output quality level being one of the plurality of output quality levels, and

automatically assigning a first quality level of the first plurality of quality levels to the first function and automatically assigning a second quality level of the second plurality of quality levels to the second function based on the output quality level for the allocated budget.

2. (Currently Amended) The method of running an algorithm according to claim 1, further comprising determining that the first function, while providing the first quality level, can be operated at a plurality of levels of complexity to enable the algorithm to operate at the output quality level.

3. (Currently Amended) The method of running an algorithm according to claim 1, further comprising the following steps:

operating the algorithm at the output quality level.

operating the first function at the first quality level while consuming a first amount of the determined resources by the first function and operating the second function at the second quality level while consuming a second amount of the determined resources by the second function.

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4. (Currently Amended) The method of running an algorithm according to claim 3, further comprising operating the first function at a least complex level of the plurality of levels of complexity while enabling the algorithm to operate at the output quality level.

5. (Previously Presented) The method of running an algorithm according to claim 1, wherein the allocated budget is substantially equal to the requested algorithm resource.

6. (Previously Presented) The method of running an algorithm according to claim 3, wherein the first amount of resources in addition to the second amount of resources is substantially equal to the allocated budget.

7. (Previously Presented) The method of running an algorithm according to claim 1, further comprising determining a hardware platform operating said method to determine the algorithm resource and the plurality of output quality levels.

8. (Previously Presented) The method of running an algorithm according to claim 1, further comprising determining a software platform operating said method to determine the algorithm resource and the plurality of output quality levels.

9. (Currently Amended) A system for running an algorithm wherein the algorithm comprises a first function and a second function, the system comprising:

function means conceived to contain the first function of the algorithm and the second function of the algorithm;

lookup means conceived to contain a plurality of output quality levels that can be provided by the algorithm, a first plurality of quality level settings of the first function, and a second plurality of quality level settings of the second function; and

processing means for:

determining one or more algorithm resources of the algorithm;

allocating a budget to the algorithm based on the determined algorithm resources to enable operation of the algorithm at an output quality level, the output quality level being one of the plurality of output quality levels; and

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assigning a first quality level of the first plurality of quality levels to the first function and assigning a second quality level of the second plurality of quality levels to the second function based on the output quality level to enable the algorithm to operate at the output quality level.

10. (Previously Presented) The system for running an algorithm according to claim 9, wherein at least one output quality level of said plurality of output quality levels can be provided by the algorithm for at least one first quality level setting of said first plurality of quality level settings and at least one second quality level setting of said second plurality of quality level settings.

11. (Currently Amended) The system for running an algorithm according to claim 10, further comprising:

a complexity means conceived to contain a plurality of levels of complexity of operation for said at least one first quality level setting enabling the algorithm to operate at the output quality level.

12. (Previously Presented) The system for running an algorithm according to claim 9, further comprising a hardware configuration means conceived to contain a hardware platform configuration of the system to determine at least said plurality of output quality levels.

13. (Previously Presented) The system for running a algorithm according to claim 9, further comprising a software configuration means conceived to contain a software platform configuration of the system to determine at least said plurality of output quality levels.

14. (Previously Presented) A computer program product arranged to perform the method according to any of the claims 1 to 8.

15. (Previously Presented) A storage device comprising a computer program product according to claim 14.

16. (Previously Presented) A television set comprising a system according to any of the claims 9 to 13.

17. (Previously Presented) A set-top box comprising a system according to any of the claims

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9 to 13.

18. (Currently Amended) A system for running an algorithm, comprising:

at least one memory capable of storing a first function of the algorithm, a second function of the algorithm, a plurality of output quality levels provided by the algorithm, a first plurality of quality level settings for the first function, and a second plurality of quality level settings for the second function; and

at least one processor capable of:

determining one or more algorithm resources;

allocating a budget to the algorithm based on the determined algorithm resources to enable operation of the algorithm at a selected output quality level, the selected output quality level comprising one of the plurality of output quality levels; and

assigning a first quality level of the first plurality of quality levels to the first function and assigning a second quality level of the second plurality of quality levels to the second function based on the selected output quality level for the allocated budget.

19. (Previously Presented) The system of Claim 18, wherein the at least one memory is further capable of storing a hardware configuration file containing a hardware platform configuration of the system, the plurality of output quality levels based at least partially on the hardware configuration file.

20. (Previously Presented) The system of Claim 18, wherein the at least one memory is further capable of storing a software configuration file containing a software platform configuration of the system, the plurality of output quality levels based at least partially on the software configuration file.